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| Notice of Allowability | Application No. | Applicant(s) | |
| | 09/973,563 | MOON, JAE-YOUNG | |
| | Examiner | Art Unit | |
| | Phuongchau Ba Nguyen | 2665 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10-9-01.
2. ☒ The allowed claim(s) is/are 1-15,17-19; Renumbered as 1-18 respectively.
3. ☒ The drawings filed on 09 October 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date <u>3-28-5</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Frank Chau on 3-28-5.

3. The application has been amended as follows:

-Claim 9, line 9,

“(first clock speed)” and “(second clock speed)” had been changed
---the speed of the first clock--- and ---the speed of the second clock---

-Claim 9, line 11,

--- , wherein the step of outputting the N bit data including
multiplexing between the first and second paths, said multiplexing being
control by a rate select bit--- had been inserted after the word “signal”.

-Claim 16 had been canceled.

-Claim 17, line 10,

“(first clock speed)” and “(second clock speed)” had been changed
---the speed of the first clock--- and ---the speed of the second clock---

-Claim 17, line 12,

--- , wherein said means for outputting includes a multiplexer for
selecting the N bit data from the first or second path under control by a
rate select bit--- had been inserted after the word “respectively”.

-Claim 20 had been canceled.

4. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-8, the prior art fails to teach or suggest a device for speed negotiation in data transmission, comprising “a circuit for receiving the N bit data output from the first register and outputting a first half of the N bit data during a first phase of the first clock and outputting a second half of the N bit data during a second phase of the first clock,” in combination with other limitations, as specified in the independent claim 1.

Regarding claims 9-15, the prior art fails to teach or suggest a method of speed negotiation in a data link, comprising the steps of “adjusting the timing of outputting the N bit data from the first path by a factor equal to (first clock speed) divided by (second

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clock speed); and outputting the N bit data from either the first or the second path at the first low speed or the second high speed, respectively, wherein the step of outputting the N bit data includes multiplexing between the first and the second paths, said multiplexing being control by a rate select bit," in combination with other limitations, as specified in the independent claim 9.

Regarding claims 17-19, the prior art fails to teach or suggest a device for negotiating speed of a data link, comprising "means for adjusting the timing of outputting the N bit data from the first path by a factor equal to (first clock speed) divided by (second clock speed); and means for outputting the N bit data from either the first or the second path at the first low speed or the second high speed, respectively, wherein said means for outputting includes a multiplexer for selecting the N bit data from the first or second path under control by a rate select bit," in combination with other limitations, as specified in the independent claim 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchau Ba Nguyen whose telephone number is 571-272-3148. The examiner can normally be reached on Monday-Friday from 10:00 a.m. to 2:00 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phuongchau Ba Nguyen
Examiner
Art Unit 2665

**DUCHO
PRIMARY EXAMINER**


4-4-05